CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board
Division of Drinking Water

January 31, 2017

System No. 3610703

Chris Elliott
Water Resources Manager
Natural Resources Environmental Affairs
MCAGCC, Bldg. 1418
Box 788110
Twentynine Palms, CA 92278-8110
chris.elliott@usmc.mil

Dear Mr. Elliott:

CITATION NO. 05-13-17C-003
TOTAL COLIFORM MAXIMUM CONTAMINANT LEVEL VIOLATION
FOR DECEMBER 2016

Enclosed is a Citation issued to the Marine Corps Air Ground Combat Center, Twentynine Palms (hereinafter "USMC 29 Palms") public water system.

The USMC 29 Palms will be billed at the State Water Resources Control Board's (hereinafter "State Board") hourly rate for the time spent on issuing this Citation. California Health and Safety Code, Section 116577, provides that a public water system must reimburse the State Board for actual costs incurred by the State Board for specified enforcement actions, including but not limited to, preparing, issuing and monitoring compliance with a citation. At this time, the State Board has spent approximately 0.5 hour(s) on enforcement activities associated with this violation.

The USMC 29 Palms will receive a bill sent from the State Board in August of the next fiscal year. This bill will contain fees for any enforcement time spent on the USMC 29 Palms for the current fiscal year.If you have any questions regarding this matter, please contact Andrés Aguirre of my staff at (909) 383-4308 or me at (909) 383-4328.

Sincerely,

Eric J. Zúñiga, P.E.
District Engineer
San Bernardino District
Southern California Field Operations Branch

Enclosure

Certified Mail No. 7006 2150 0004 3940 8072

Citation No. 05-13-17C-003

STATE OF CALIFORNIA

STATE WATER RESOURCES CONTROL BOARD

DIVISION OF DRINKING WATER

Name of Public Water System: Marine Corps Air Ground Combat Center, Twentynine Palms

Water System No: 3610703

Attention: Chris Elliott
Water Resources Manager
Natural Resources Environmental Affairs
MCAGCC, Bldg. 1418
Box 788110
Twentynine Palms, CA 92278-8110

Issued: January 31, 2017

CITATION FOR NONCOMPLIANCE

TOTAL COLIFORM MAXIMUM CONTAMINANT LEVEL VIOLATION

CALIFORNIA CODE OF REGULATIONS, TITLE 22, SECTION 64426.1

DECEMBER 2016

The California Health and Safety Code (hereinafter "CHSC"), Section 116650 authorizes the State Water Resources Control Board (hereinafter "State Board") to issue a citation to a public water system when the State Board determines that the public water system has violated or is violating

the California Safe Drinking Water Act (hereinafter "California SDWA"), (CHSC, Division 104, Part 12, Chapter 4, commencing with Section 116270), or any regulation, standard, permit, or order issued or adopted thereunder.

The State Board, acting by and through its Division of Drinking Water (hereinafter "Division") and the Deputy Director for the Division, hereby issues this citation pursuant to Section 116650 of the CHSC to the Marine Corps Air Ground Combat Center, Twentynine Palms (hereinafter "USMC 29 Palms") for violation of CHSC, Section 116555(a)(1) and, California Code of Regulations (hereinafter "CCR"), Title 22, Section 64426.1.

A copy of the applicable statutes and regulations are included in Appendix 1, which is attached hereto and incorporated by reference.

STATEMENT OF FACTS

The USMC 29 Palms is classified as a community water system with a population of 21,460 serving 2,431 connections. The Division received laboratory results for 35 bacteriological samples collected during December 2016 from the USMC 29 Palms. All samples were analyzed for the presence of total coliform bacteria. 2 of the 35samples analyzed were positive for total coliform bacteria. None of the total coliform positive samples showed the presence of Escherichia coli (*E. coli*) bacteria.

DETERMINATION

CCR, Title 22, Section 64426.1, Total Coliform Maximum Contaminant Level (MCL) states that a public water system is in violation of the total coliform

MCL if it collects fewer than 40 bacteriological samples per month and if more than one sample collected during any month is total coliform-positive.

The USMC 29 Palms took 35 bacteriological samples during December 2016. The results of the analysis of 2routine samples were total coliform positive. Therefore, the Division has determined that the USMC 29 Palms violated CCR, Title 22, Section 64426.1 during December 2016.

DIRECTIVES

The USMC 29 Palms is hereby directed to take the following actions:

1. Comply with CCR, Title 22, Section 64426.1, in all future monitoring periods.

2. On or before **February 7, 2017**, notify all persons served by the USMC 29 Palms of the violation of Section 64426.1, in conformance with CCR, Title 22, Sections 64463.4(b)&(c) and 64465. Copies of Sections 64463.4 and 64465 are included in Appendix 1. Appendix 2: Notification Template shall be used to fulfill this directive unless otherwise approved by the Division. – **THIS DIRECTIVE WAS COMPLETED JANUARY 13, 2017. A COPY OF THE NOTICE IS INCLUDED IN APPENDIX 2.**

3. Complete Appendix 3: Compliance Certification Form. Submit it together with a copy of the public notification required by Directive 2 to the Division on or before **February 17, 2017. – THIS DIRECTIVE WAS COMPLETED JANUARY 17, 2017. A COPY OF THE CERTIFICATION IS INCLUDED IN APPENDIX 3.**

4. Submit the information required by CCR, Title 22, Section 64426(b)(2) on or before **January 30, 2017**. Appendix 4: Positive Total Coliform Investigation may be used to fulfill this directive. – **THIS DIRECTIVE WAS COMPLETED JANUARY 5, 2017. A COPY OF THE LEVEL 1 ASSESSMENT IS INCLUDED IN APPENDIX 4.**

All submittals required by this Citation shall be electronically submitted to the Division at the following address. The subject line for all electronic submittals corresponding to this citation shall include the following information: Water System name and number, citation number and title of the document being submitted.

Eric J. Zúñiga, P.E.
District Engineer
San Bernardino District
dwpdist13@waterboards.ca.gov

The State Board reserves the right to make such modifications to this Citation as it may deem necessary to protect public health and safety. Such modifications may be issued as amendments to this Citation and shall be effective upon issuance.

Nothing in this Citation relieves the USMC 29 Palms of its obligation to meet the requirements of the California SDWA (CHSC, Division 104, Part 12, Chapter 4, commencing with Section 116270), or any regulation, standard, permit or order issued or adopted thereunder.

PARTIES BOUND

This Citation shall apply to and be binding upon the USMC 29 Palms, its owners, shareholders, officers, directors, agents, employees, contractors, successors, and assignees.

SEVERABILITY

The directives of this Citation are severable, and the USMC 29 Palms shall comply with each and every provision thereof notwithstanding the effectiveness of any provision.

FURTHER ENFORCEMENT ACTION

The California SDWA authorizes the State Board to: issue a citation or order with assessment of administrative penalties to a public water system for violation or continued violation of the requirements of the California SDWA or any regulation, permit, standard, citation, or order issued or adopted thereunder including, but not limited to, failure to correct a violation identified in a citation or compliance order. The California SDWA also authorizes the State Board to take action to suspend or revoke a permit that has been issued to a public water system if the public water system has violated applicable law or regulations or has failed to comply with an order of the State Board, and to petition the superior court to take various enforcement measures against a public water system that has failed to comply with an order of the State Board. The State Board does not waive any further enforcement action by issuance of this Citation.

Eric J. Zúñiga, P.E. Date

District Engineer

San Bernardino District

South California Field Operations Branch

Appendices (4):

1. Applicable Statutes and Regulations
2. Tier 2 Public Notice
3. Compliance Certification Form
4. Level 1 Assessment Investigation Form

Certified Mail No. 7006 2150 0004 3940 8072

APPENDIX 1: APPLICABLE STATUTES AND REGULATIONS FOR CITATION NO. 05-13-17C-003

NOTE: The following language is provided for the convenience of the recipient, and cannot be relied upon as the State of California's representation of the law. The published codes are the only official representation of the law. Regulations related to drinking water are in Titles 22 and 17 of the California Code of Regulations. Statutes related to drinking water are in the Health & Safety Code, the Water Code, and other codes.

California Health and Safety Code (CHSC):

Section 116271 states in relevant part:

(a) The State Water Resources Control Board succeeds to and is vested with all of the authority, duties, powers, purposes, functions, responsibilities, and jurisdiction of the State Department of Public Health, its predecessors, and its director for purposes of all of the following:

(1) The Environmental Laboratory Accreditation Act (Article 3 (commencing with Section 100825) of Chapter 4 of Part 1 of Division 101).

(2) Article 3 (commencing with Section 106875) of Chapter 4 of Part 1.

(3) Article 1 (commencing with Section 115825) of Chapter 5 of Part 10.

(4) This chapter and the Safe Drinking Water State Revolving Fund Law of 1997 (Chapter 4.5 (commencing with Section 116760)).

(5) Article 2 (commencing with Section 116800), Article 3 (commencing with Section 116825), and Article 4 (commencing with Section 116875) of Chapter 5.

(6) Chapter 7 (commencing with Section 116975).

(7) The Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 (Division 43 (commencing with Section 75001) of the Public Resources Code).

(8) The Water Recycling Law (Chapter 7 (commencing with Section 13500) of Division 7 of the Water Code).

(9) Chapter 7.3 (commencing with Section 13560) of Division 7 of the Water Code.

(10) The California Safe Drinking Water Bond Law of 1976 (Chapter 10.5 (commencing with Section 13850) of Division 7 of the Water Code).

(11) Wholesale Regional Water System Security and Reliability Act (Division 20.5 (commencing with Section 73500) of the Water Code).

(12) Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Division 26.5 (commencing with Section 79500) of the Water Code).

(b) The State Water Resources Control Board shall maintain a drinking water program and carry out the duties, responsibilities, and functions described in this section. Statutory reference to "department," "state department," or "director" regarding a function transferred to the State Water Resources Control Board shall refer to the State Water Resources Control Board. This section does not impair the authority of a local health officer to enforce this chapter or a county's election not to enforce this chapter, as provided in Section 116500...

(k) (1) The State Water Resources Control Board shall appoint a deputy director who reports to the executive director to oversee the issuance and enforcement of public water system permits and other duties as appropriate. The deputy director shall have public health expertise.

(2) The deputy director is delegated the State Water Resources Control Board's authority to provide notice, approve notice content, approve emergency notification plans, and take other action pursuant to Article 5 (commencing with Section 116450), to issue, renew, reissue, revise, amend, or deny any public water system permits pursuant to Article 7 (commencing with Section 116525), to suspend or revoke any public water system permit pursuant to Article 8 (commencing with Section 116625), and to issue citations, assess penalties, or issue orders pursuant to Article 9 (commencing with Section 116650). Decisions and actions of the deputy director taken pursuant to Article 5 (commencing with Section 116450) or Article 7 (commencing with Section 116525) are deemed decisions and actions taken, but are not subject to reconsideration, by the State Water Resources Control Board. Decisions and actions of the deputy director taken pursuant to Article 8 (commencing with Section 116625) and Article 9 (commencing with Section 116650) are deemed decisions and actions taken by the State Water Resources Control Board, but any aggrieved person may petition the State Water Resources Control Board for reconsideration of the decision or action. This subdivision is not a limitation on the State Water Resources Control Board's authority to delegate any other powers and duties.

Section 116555 states in relevant part:

(a) Any person who owns a public water system shall ensure that the system does all of the following:

(1) Complies with primary and secondary drinking water standards.

(2) Will not be subject to backflow under normal operating conditions.

(3) Provides a reliable and adequate supply of pure, wholesome, healthful, and potable water.

Section 116650 states in relevant part:
(a) If the state board determines that a public water system is in violation of this chapter or any regulation, permit, standard, citation, or order issued or adopted thereunder, the state board may issue a citation to the public water system. The citation shall be served upon the public water system personally or by certified mail. Service shall be deemed effective as of the date of personal service or the date of receipt of the certified mail. If a person to whom a citation is directed refuses to accept delivery of the certified mail, the date of service shall be deemed to be the date of mailing.
(b) Each citation shall be in writing and shall describe the nature of the violation or violations, including a reference to the statutory provision, standard, order, citation, permit, or regulation alleged to have been violated.
(c) A citation may specify a date for elimination or correction of the condition constituting the violation.
(d) A citation may include the assessment of a penalty as specified in subdivision (e).
(e) The state board may assess a penalty in an amount not to exceed one thousand dollars ($1,000) per day for each day that a violation occurred, and for each day that a violation continues to occur. A separate penalty may be assessed for each violation and shall be in addition to any liability or penalty imposed under any other law.

California Code of Regulations, Title 22 (CCR):

Section 64421 (General Requirements) states:
(a) Each water supplier shall:
(1) Develop a routine sample siting plan as required in section 64422;
(2) Collect routine, repeat and replacement samples as required in Sections 64423, 64424, and 64425;
(3) Have all samples analyzed by laboratories approved to perform those analyses by the State Board and report results as required in section 64423.1;
(4) Notify the State Board when there is an increase in coliform bacteria in bacteriological samples as required in section 64426; and
(5) Comply with the Maximum Contaminant Level as required in section 64426.1.
(b) Water suppliers shall perform additional bacteriological monitoring as follows:
(1) After construction or repair of wells;
(2) After main installation or repair;
(3) After construction, repair, or maintenance of storage facilities; and
(4) After any system pressure loss to less than five psi. Samples collected shall represent the water quality in the affected portions of the system.

Section 64422 (Routine Sample Siting Plan) states:
(a) By September 1, 1992, each water supplier shall develop and submit to the State Board a siting plan for the routine collection of samples for total coliform analysis, subject to the following:
(1) The sample sites chosen shall be representative of water throughout the distribution system including all pressure zones, and areas supplied by each water source and distribution reservoir.
(2) The water supplier may rotate sampling among the sample sites if the total number of sites needed to comply with (a)(1) above exceeds the number of samples required according to Table 64423-A. The rotation plan shall be described in the sample siting plan.
(b) If personnel other than certified operators will be performing field tests and/or collecting samples, the sample siting plan shall include a declaration that such personnel have been trained, pursuant to §64415 (b).
(c) The supplier shall submit an updated plan to the State Board at least once every ten years and at any time the plan no longer ensures representative monitoring of the system.

Section 64423 (Routine Sampling) states:
(a) Each water supplier shall collect routine bacteriological water samples as follows:
(1) The minimum number of samples for community water systems shall be based on the known population served or the total number of service connections, whichever results in the greater number of samples, as shown in Table 64423-A. A community water system using groundwater which serves 25-1000 persons may request from the State Board a reduction in monitoring frequency. The minimum reduced frequency shall not be less than one sample per quarter.
(2) The minimum number of samples for nontransient-noncommunity water systems shall be based on the known population served as shown in Table 64423-A during those months when the system is operating. A nontransient-noncommunity water system using groundwater which serves 25-1000 persons may request from the State Board a reduction in monitoring frequency if it has not violated the requirements in this article during the past twelve months. The minimum reduced frequency shall not be less than one sample per quarter.
(3) The minimum number of samples for transient-noncommunity water systems using groundwater and serving 1000 or fewer persons a month shall be one in each calendar quarter during which the system provides water to the public.
(4) The minimum number of samples for transient-noncommunity water systems using groundwater and serving more than 1000 persons during any month shall be based on the known population served as shown in Table 64423-A, except that the water supplier may request from the State Board a reduction in monitoring

for any month the system serves 1000 persons or fewer. The minimum reduced frequency shall not be less than one sample in each calendar quarter during which the system provides water to the public.

(5) The minimum number of samples for transient-noncommunity water systems using approved surface water shall be based on the population served as shown in Table 64423-A. A system using groundwater under the direct influence of surface water shall begin monitoring at this frequency by the end of the sixth month after the State Board has designated the source to be approved surface water.

(6) A public water system shall collect samples at regular time intervals throughout the month, except that a system using groundwater which serves 4,900 persons or fewer may collect all required samples on a single day if they are taken from different sites.

(b) In addition to the minimum sampling requirements, all water suppliers using approved surface water which do not practice treatment in compliance with Sections 64650 through 64666, shall collect a minimum of one sample before or at the first service connection each day during which the turbidity level of the water delivered to the system exceeds 1 NTU. The sample shall be collected within 24 hours of the exceedance and shall be analyzed for total coliforms. If the water supplier is unable to collect and/or analyze the sample within the 24-hour time period because of extenuating circumstances beyond its control, the supplier shall notify the State Board within the 24-hour time period and may request an extension. Sample results shall be included in determining compliance with the MCL for total coliforms in Section 64426.1.

(c) If any routine, repeat, or replacement sample is total coliform-positive, then the water supplier shall collect repeat samples in accordance with Section 64424 and comply with the reporting requirements specified in Sections 64426 and 64426.1.

Table 64423-A

Minimum Number of Routine Total Coliform Samples

Monthly Population Served	Service Connections	Minimum Number of Samples
25 to 1000	15 to 400	1 per month
1,001 to 2,500	401 to 890	2 per month
2,501 to 3,300	891 to 1,180	3 per month
3,301 to 4,100	1,181 to 1,460	4 per month
4,101 to 4,900	1,461 to 1,750	5 per month
4,901 to 5,800	1,751 to 2,100	6 per month
5,801 to 6,700	2,101 to 2,400	7 per month
6,701 to 7,600	2,401 to 2,700	2 per week
7,601 to 12,900	2,701 to 4,600	3 per week
12,901 to 17,200	4,601 to 6,100	4 per week
17,201 to 21,500	6,101 to 7,700	5 per week
21,501 to 25,000	7,701 to 8,900	6 per week
25,001 to 33,000	8,901 to 11,800	8 per week
33,001 to 41,000	11,801 to 14,600	10 per week
41,001 to 50,000	14,601 to 17,900	12 per week
50,001 to 59,000	17,901 to 21,100	15 per week
59,001 to 70,000	21,101 to 25,000	18 per week
70,001 to 83,000	25,001 to 29,600	20 per week
83,001 to 96,000	29,601 to 34,300	23 per week
96,001 to 130,000	34,301 to 46,400	25 per week
130,001 to 220,000	46,401 to 78,600	30 per week
220,001 to 320,000	78,601 to 114,300	38 per week
320,001 to 450,000	114,301 to 160,700	50 per week
450,001 to 600,000	160,701 to 214,300	55 per week
600,001 to 780,000	214,301 to 278,600	60 per week
780,001 to 970,000	278,601 to 346,400	70 per week
970,001 to 1,230,000	346,401 to 439,300	75 per week
1,230,001 to 1,520,000	439,301 to 542,900	85 per week
1,520,001 to 1,850,000	542,901 to 660,700	90 per week
1,850,001 to 2,270,000	660,701 to 810,700	98 per week
2,270,001 to 3,020,000	810,701 to 1,078,600	105 per week
3,020,001 to 3,960,000	1,078,601 to 1,414,300	110 per week
3,960,001 or more	1,414,301 or more	120 per week

Section 64423.1 (Sample Analysis and Reporting of Results) states:
(a) The water supplier shall designate (label) each sample as routine, repeat, replacement, or "other" pursuant to Section 64421(b), and have each sample analyzed for total coliforms. The supplier also shall require the laboratory to analyze the same sample for fecal coliforms or Escherichia coli (E. coli) whenever the presence of total coliforms is indicated. As a minimum, the analytical results shall be reported in terms of the presence or absence of total or fecal coliforms, or E. coli in the sample, whichever is appropriate.
(b) The water supplier shall require the laboratory to notify the supplier within 24 hours, whenever the presence of total coliforms, fecal coliforms or E. coli is demonstrated in a sample or a sample is invalidated due to interference problems, pursuant to Section 64425(b), and shall ensure that a contact person is available to receive these analytical results 24-hours a day. The water supplier shall also require the laboratory to immediately notify the State Board of any positive bacteriological results if the laboratory cannot make direct contact with the designated contact person within 24 hours.
(c) Analytical results of all required samples collected for a system in a calendar month shall be reported to the State Board not later than the tenth day of the following month, as follows:

(1) The water supplier shall submit a monthly summary of the bacteriological monitoring results to the State Board.

(2) For systems serving fewer than 10,000 service connections or 33,000 persons, the water supplier shall require the laboratory to submit copies of all required bacteriological monitoring results directly to the State Board.

(3) For systems serving more than 10,000 service connections, or 33,000 persons, the water supplier shall require the laboratory to submit copies of bacteriological monitoring results for all positive routine samples and all repeat samples directly to the State Board.

(d) Laboratory reports shall be retained by the water supplier for a period of at least five years and shall be made available to the State Board upon request.

Section 64424 (Repeat Sampling) states in relevant part:
(a) If a routine sample is total coliform-positive, the water supplier shall collect a repeat sample set as described in paragraph (1) within 24 hours of being notified of the positive result. The repeat samples shall all be collected within the same 24 hour time period. A single service connection system may request that the State Board allow the collection of the repeat sample set over a four-day period.

(1) For a water supplier that normally collects more than one routine sample a month, a repeat sample set shall be at least three samples for each total coliform-positive sample. For a water supplier that normally collects one or fewer samples per month, a repeat sample set shall be at least four samples for each total coliform-positive sample.

(2) If the water supplier is unable to collect the samples within the 24-hour time period specified in subsection (a) or deliver the samples to the laboratory within 24 hours after collection because of circumstances beyond its control, the water supplier shall notify the State Board within 24 hours. The State Board will then determine how much time the supplier will have to collect the repeat samples.

(b) When collecting the repeat sample set, the water supplier shall collect at least one repeat sample from the sampling tap where the original total coliform-positive sample was taken. Other repeat samples shall be collected within five service connections upstream or downstream of the original site. At least one sample shall be from upstream and one from downstream unless there is no upstream and/or downstream service connection.
(c) If one or more samples in the repeat sample set is total coliform-positive, the water supplier shall collect and have analyzed an additional set of repeat samples as specified in subsections (a) and (b). The supplier shall repeat this process until either no coliforms are detected in one complete repeat sample set or the supplier determines that the MCL for total coliforms specified in Section 64426.1 has been exceeded and notifies the State Board.
(d) If a public water system for which fewer than five routine samples/month are collected has one or more total coliform-positive samples, the water supplier shall collect at least five routine samples the following month. If the supplier stops supplying water during the month after the total coliform-positive(s), at least five samples shall be collected during the first month the system resumes operation. A water supplier may request the State Board waive the requirement to collect at least five routine samples the following month, but a waiver will not be granted solely on the basis that all repeat samples are total coliform-negative. To request a waiver, one of the following conditions shall be met:

(1) The State Board conducts a site visit before the end of the next month the system provides water to the public to determine whether additional monitoring and/or corrective action is necessary to protect public health.

(2) The State Board determines why the sample was total coliform-positive and establishes that the system has corrected the problem or will correct the problem before the end of the next month the system serves water to the public. If a waiver is granted, a system shall collect at least one routine sample before the end of the next month it serves water to the public and use it to determine compliance with Section 64426.1.

Section 64425 (Sample Invalidation) states:
(a) A water supplier may request the Department to invalidate a sample for which a total coliform-positive result has been reported if the supplier demonstrates:

(1) All repeat sample(s) collected at the same tap as the original total coliform-positive sample also are total coliform- positive and all repeat samples collected within five service connections of the original tap are not total coliform-positive; or
(2) The laboratory did not follow the prescribed analytical methods pursuant to §64415(a), based on a review of laboratory documentation by the Department. The supplier shall submit to the Department a written request for invalidation along with the laboratory documentation, the supplier's sample collection records and any observations noted during sample collection and delivery. The water supplier shall require the laboratory to provide the supplier with documentation which shall include, but not be limited to:
(A) A letter from the director of the laboratory having generated the data, confirming the invalidation request by reason of laboratory accident or error;
(B) Complete sample identification, laboratory sample log number (if used), date and time of collection, date and time of receipt by the laboratory, date and time of analysis for the sample(s) in question;
(C) Complete description of the accident or error alleged to have invalidated the result(s);
(D) Copies of all analytical, operating, and quality assurance records pertaining to the incident in question; and
(E) Any observations noted by laboratory personnel when receiving and analyzing the sample(s) in question.

(b) Whenever any total coliform sample result indicative of the absence of total coliforms has been declared invalid by the laboratory due to interference problems as specified at 40 Code Federal Regulations, Section 141.2100(c)(2), the supplier shall collect a replacement sample from the same location as the original sample within 24 hours of being notified of the interference problem, and have it analyzed for the presence of total coliforms. The supplier shall continue to re-sample at the original site within 24 hours and have the samples analyzed until a valid result is obtained.

Section 64426 (Significant Rise in Bacterial Count) states in relevant part:
(a) Any of the following criteria shall indicate a possible significant rise in bacterial count:
(1) A system collecting at least 40 samples per month has a total coliform-positive routine sample followed by two total coliform-positive repeat samples in the repeat sample set;
(2) A system has a sample which is positive for fecal coliform or E. coli; or
(3) A system fails the total coliform Maximum Contaminant Level (MCL) as defined in Section 64426.1.
(b) When the coliform levels specified in subsection (a) are reached or exceeded, the water supplier shall:
(1) Contact the State Board by the end of the day on which the system is notified of the test result or the system determines that it has exceeded the MCL, unless the notification or determination occurs after the State Board office is closed, in which case the supplier shall notify the State Board within 24 hours; and
(2) Submit to the State Board information on the current status of physical works and operating procedures which may have caused the elevated bacteriological findings, or any information on community illness suspected of being waterborne. This shall include, but not be limited to:
(A) Current operating procedures that are or could potentially be related to the increase in bacterial count;
(B) Any interruptions in the treatment process;
(C) System pressure loss to less than 5 psi;
(D) Vandalism and/or unauthorized access to facilities;
(E) Physical evidence indicating bacteriological contamination of facilities;
(F) Analytical results of any additional samples collected, including source samples;
(G) Community illness suspected of being waterborne; and
(H) Records of the investigation and any action taken.

Section 64426.1 (Total Coliform Maximum Contaminant Level (MCL)) states in relevant part:
(b) A public water system is in violation of the total coliform MCL when any of the following occurs:
(1) For a public water system which collects at least 40 samples per month, more than 5.0 percent of the samples collected during any month are total coliform-positive; or
(2) For a public water system which collects fewer than 40 samples per month, more than one sample collected during any month is total coliform-positive; or
(3) Any repeat sample is fecal coliform-positive or E. coli-positive; or
(4) Any repeat sample following a fecal coliform-positive or E. coli-positive routine sample is total coliform-positive.

(c) If a public water system is not in compliance with paragraphs (b)(1) through (4), during any month in which it supplies water to the public, the water supplier shall notify the State Board by the end of the business day on which this is determined, unless the determination occurs after the State Board office is closed, in which case the supplier shall notify the State Board within 24 hours of the determination. The water supplier shall also notify the consumers served by the water system. A Tier 2 Public Notice shall be given for violations of paragraph (b)(1) or (2), pursuant to section 64463.4. A Tier 1 Public Notice shall be given for violations of paragraph (b)(3) or (4), pursuant to section 64463.1.

Section 64463.1 (Tier 1 Public Notice) states in relevant part:

(a) A water system shall give public notice pursuant to this section and section 64465 if any of the following occurs:

(1) Violation of the total coliform MCL when:

(A) Fecal coliform or E. coli are present in the distribution system; or

(B) When any repeat sample tests positive for coliform and the water system fails to test for fecal coliforms or E. coli in the repeat sample;...

(b) As soon as possible within 24 hours after learning of any of the violations in subsection (a) or being notified by the State Board that it has determined there is a potential for adverse effects on human health [pursuant to paragraph (a)(4), (5), or (6)], the water system shall:

(1) Give public notice pursuant to this section;

(2) Initiate consultation with the State Board within the same timeframe; and

(3) Comply with any additional public notice requirements that are determined by the consultation to be necessary to protect public health.

(c) A water system shall deliver the public notice in a manner designed to reach residential, transient, and nontransient users of the water system and shall use, as a minimum, one of the following forms:

(1) Radio or television;

(2) Posting in conspicuous locations throughout the area served by the water system;

(3) Hand delivery to persons served by the water system; or

(4) Other method approved by the State Board, based on the method's ability to inform water system users.

Section 64463.4 (Tier 2 Public Notice) states:

(a) A water system shall give public notice pursuant to this section if any of the following occurs:

(1) Any violation of the MCL, MRDL, and treatment technique requirements, except:

(A) Where a Tier 1 public notice is required under section 64463.1; or

(B) Where the State Board determines that a Tier 1 public notice is required, based on potential health impacts and persistence of the violations;

(2) All violations of the monitoring and testing procedure requirements in sections 64421 through 64426.1, article 3 (Primary Standards – Bacteriological Quality), for which the State Board determines that a Tier 2 rather than a Tier 3 public notice is required, based on potential health impacts and persistence of the violations;

(3) Other violations of the monitoring and testing procedure requirements in this chapter, and chapters 15.5, 17 and 17.5, for which the State Board determines that a Tier 2 rather than a Tier 3 public notice is required, based on potential health impacts and persistence of the violations; or

(4) Failure to comply with the terms and conditions of any variance or exemption in place.

(b) A water system shall give the notice as soon as possible within 30 days after it learns of a violation or occurrence specified in subsection (a), except that the water system may request an extension of up to 60 days for providing the notice. This extension would be subject to the State Board's written approval based on the violation or occurrence having been resolved and the State Board's determination that public health and welfare would in no way be adversely affected. In addition, the water system shall:

(1) Maintain posted notices in place for as long as the violation or occurrence continues, but in no case less than seven days;

(2) Repeat the notice every three months as long as the violation or occurrence continues. Subject to the State Board's written approval based on its determination that public health would in no way be adversely affected, the water system may be allowed to notice less frequently but in no case less than once per year. No allowance for reduced frequency of notice shall be given in the case of a total coliform MCL violation or violation of a Chapter 17 treatment technique requirement; and

(3) For turbidity violations pursuant to sections 64652.5(c)(2) and 64653(c), (d) and (f), as applicable, a water system shall consult with the State Board as soon as possible within 24 hours after the water system learns of the violation to determine whether a Tier 1 public notice is required. If consultation does not take place within 24 hours, the water system shall give Tier 1 public notice within 48 hours after learning of the violation.

(c) A water system shall deliver the notice, in a manner designed to reach persons served, within the required time period as follows:

(1) Unless otherwise directed by the State Board in writing based on its assessment of the violation or occurrence and the potential for adverse effects on public health and welfare, community water systems shall give public notice by;

(A) Mail or direct delivery to each customer receiving a bill including those that provide their drinking water to others (e.g., schools or school systems, apartment building owners, or large private employers), and other service connections to which water is delivered by the water system; and

(B) Use of one or more of the following methods to reach persons not likely to be reached by a mailing or direct delivery (renters, university students, nursing home patients, prison inmates, etc.):

1. Publication in a local newspaper;
2. Posting in conspicuous public places served by the water system, or on the Internet; or
3. Delivery to community organizations.

(2) Unless otherwise directed by the State Board in writing based on its assessment of the violation or occurrence and the potential for adverse effects on public health and welfare, noncommunity water systems shall give the public notice by:

(A) Posting in conspicuous locations throughout the area served by the water system; and

(B) Using one or more of the following methods to reach persons not likely to be reached by a public posting:

1. Publication in a local newspaper or newsletter distributed to customers;
2. E-mail message to employees or students;
3. Posting on the Internet or intranet; or
4. Direct delivery to each customer.

Section 64465 (Public Notice Content and Format) states in relevant part:

(a) Each public notice given pursuant to this article, except Tier 3 public notices for variances and exemptions pursuant to subsection (b), shall contain the following:

(1) A description of the violation or occurrence, including the contaminant(s) of concern, and (as applicable) the contaminant level(s);

(2) The date(s) of the violation or occurrence;

(3) Any potential adverse health effects from the violation or occurrence, including the appropriate standard health effects language from appendices 64465-A through G;

(4) The population at risk, including subpopulations particularly vulnerable if exposed to the contaminant in drinking water;

(5) Whether alternative water supplies should be used;

(6) What actions consumers should take, including when they should seek medical help, if known;

(7) What the water system is doing to correct the violation or occurrence;

(8) When the water system expects to return to compliance or resolve the occurrence;

(9) The name, business address, and phone number of the water system owner, operator, or designee of the water system as a source of additional information concerning the public notice;

(10) A statement to encourage the public notice recipient to distribute the public notice to other persons served, using the following standard language: —Please share this information with all the other people who drink this water, especially those who may not have received this public notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this public notice in a public place or distributing copies by hand or mail; and

(11) For a water system with a monitoring and testing procedure violation, this language shall be included: "We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During [compliance period dates], we ['did not monitor or test' or 'did not complete all monitoring or testing'] for [contaminant(s)], and therefore, cannot be sure of the quality of your drinking water during that time." …

(c) A public water system providing notice pursuant to this article shall comply with the following multilingual-related requirements:

(2) For a Tier 2 or Tier 3 public notice:

(A) The notice shall contain information in Spanish regarding the importance of the notice, or contain a telephone number or address where Spanish-speaking residents may contact the public water system to obtain a translated copy of the notice or assistance in Spanish; and

(B) When a non-English speaking group other than Spanish-speaking exceeds 1,000 residents or 10 percent of the residents served by the public water system, the notice shall include:

1. Information in the appropriate language(s) regarding the importance of the notice; or
2. A telephone number or address where such residents may contact the public water system to obtain a translated copy of the notice or assistance in the appropriate language; and

(3) For a public water system subject to the Dymally-Alatorre Bilingual Services Act, Chapter 17.5, Division 7, of the Government Code (commencing with section 7290), meeting the requirements of this Article may not ensure compliance with the Dymally-Alatorre Bilingual Services Act.

(d) Each public notice given pursuant to this article shall:

(1) Be displayed such that it catches people's attention when printed or posted and be formatted in such a way that the message in the public notice can be understood at the eighth-grade level;

(2) Not contain technical language beyond an eighth-grade level or print smaller than 12 point; and

(3) Not contain language that minimizes or contradicts the information being given in the public notice.

Appendix 64465-A. Health Effects Language - Microbiological Contaminants.

Contaminant	Health Effects Language
Total Coliform	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.
Fecal coliform/E. coli	Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
Turbidity	Turbidity has no health effects. However, high levels of turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Section 64469 (Reporting Requirements) states in relevant part:

(d) Within 10 days of giving initial or repeat public notice pursuant to Article 18 of this Chapter, except for notice given under section 64463.7(d), each water system shall submit a certification to the State Board that it has done so, along with a representative copy of each type of public notice given.

Section 64481 (Content of the Consumer Confidence Report) states in relevant part:

(g) For the year covered by the report, the Consumer Confidence Report shall note any violations of paragraphs (1) through (7) and give related information, including any potential adverse health effects, and the steps the system has taken to correct the violation.

(1) Monitoring and reporting of compliance data.

APPENDIX 2. TIER 2 PUBLIC NOTICE

UNITED STATES MARINE CORPS
MARINE AIR GROUND TASK FORCE TRAINING COMMAND
MARINE CORPS AIR GROUND COMBAT CENTER
BOX 788110
TWENTYNINE PALMS, CALIFORNIA 92278-8110

5090
4E/c-17-0020
10 January 2017

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

This is not an emergency

Este informe contiene información muy importante sobre su agua potable.
Tradúzcalo o hable con alguien que lo entienda bien.

The Combat Center collects and tests the drinking water constantly throughout its system to ensure the water delivered to you is in compliance with regulatory requirements at all times. As a result of the required testing, the Combat Center received a notice of non-compliance for exceeding the drinking water standard for coliform bacteria on December 9, 2016. When a regulatory violation occurs, public notification may be required. Although this is not an emergency, you have a right to know what you should do, what happened, and what we are doing to correct this situation.

What should I do?

- **You do not need to boil your water or take other corrective actions.**
- This is not an emergency. If it had been, you would have been notified immediately. Total coliform bacteria are generally not harmful by themselves. Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.
- Usually, coliforms are a sign that there could be a problem with the system's treatment or distribution system (pipes). Whenever we detect coliform bacteria in any sample, we do follow-up testing to see if other bacteria of greater concern, such as fecal coliform or *E. coli*, are present. **We did not find any of these bacteria in our subsequent testing, and further testing shows that this problem has been resolved.**
- People with severely compromised immune systems, infants, and some elderly may be at increased risk. These people should seek advice about drinking water from their health care providers. General guidelines on ways to lessen the risk of infection by microbes are available from U.S. EPA's Safe Drinking Water Hotline at 1(800) 426-4791.
- If you have other health issues concerning the consumption of this water, you may wish to consult your doctor

What happened? What is being done?

As part of our standard protocol the Combat Center collected 8 routine samples to test for the presence of coliform bacteria during the week of December 4th. Of those samples, one showed the presence of total coliform bacteria. Repeat sampling was conducted at the original positive location, one up-stream and one down-stream location. One of the repeat samples also showed the presence of total coliform bacteria. **The positive samples were confined to an area that supports Ranges 100 - 113. No other areas across the entire Combat Center were positive for coliform bacteria.**

To remediate this compliance issue, the Combat Center flushed the system and resampled with results indicating coliform bacteria is no longer present. Chlorine is used to prevent the formation of coliform bacteria. Due to low usage of this water line, chlorine dissipated from the water and was not present at a sufficient level to prevent the presence of coliform bacteria. The Combat Center instituted increased flushing processes and procedures to prevent this situation from occurring in the future.

This notice was developed jointly with SWRCB staff and approved for public release. Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in the barracks, schools, and businesses). You can do this by posting this public notice in a public place or distributing copies by hand or mail. If you have questions regarding this report or related issues please contact Mr. Chris Elliott, Water Resources Manager, Natural Resources and Environmental Affairs (NREA) Division at 760-830-7883 or chris.elliott@usmc.mil.

Sincerely,

T. B. POCHOP
LtCol, USMC
Director, NREA

MCAGCC TWENTYNINE PALMS
OBSERVATION POST
Since 1957
www.29palms.marines.mil
Vol. 61 Issue 1
January 13, 2017

A LOOK BACK AT 2016

Train like we fight

See page A6

Update on Combat Center water

This is not an emergency. If it had been, you would have been notified immediately. The Combat Center, as part of our standard weekly protocol, collected eight routine water samples to test for the presence of coliform bacteria during the week of December 4th. Of those samples, one showed the presence of total coliform bacteria. Repeat sampling was conducted at the original positive location, one up-stream and one down-stream location. One of the repeat samples also showed the presence of total coliform bacteria. The positive samples were confined to an area that supports Ranges 100 - 113. No other areas across the entire Combat Center were positive for coliform bacteria.

To remediate this issue, the Combat Center flushed the system and resampled with results indicating coliform bacteria is no longer present. Chlorine is used to prevent the formation of coliform bacteria. Due to low usage of this water line, chlorine dissipated from the water and was not present at a sufficient level to prevent the presence of coliform bacteria. The Combat Center instituted increased flushing processes and procedures to prevent this situation from occurring in the future.

Total coliform bacteria are generally not harmful by themselves. Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Whenever we detect coliform bacteria in any sample, we do follow-up testing to see if other bacteria of greater concern, such as fecal coliform or E. coli, are present. We did not find any of these bacteria in our subsequent testing, and further testing shows that this problem has been resolved.

If you have questions regarding this issue please contact Mr. Chris Elliott, Water Resources Manager, Natural Resources and Environmental Affairs (NREA) Division at 760-830-7883 or chris.elliott@usmc.mil.

APPENDIX 3. COMPLIANCE CERTIFICATION

Drinking Water Notification to Consumers

PROOF OF NOTIFICATION

Name of Water System: USMC Twentynine Palms (3610703)

Please explain what caused the problem if you have determined what it was and what steps you have taken to correct it. The positive TC was a result of low chlorine residual in an isolated dead end line. Short term corrective action is increased flushing and residual monitoring. Long term corrective action is the installation of an automated flushing and sampling station.

Consumers Notified X Yes _____ No

If not, Explain: _____

Date of Notification: January 13, 2017

On the date of notification set forth above, I served the above referenced document(s) on the consumers by:

_____ Sending a copy through the U.S. Mail, first class, postage prepaid, addressed to each of the resident(s) at the place where the property is situated, pursuant to the California Civil Code. Attach copy of Notice.

X
_____ Newspaper (if the problem has been corrected). Attach a copy of Notice.

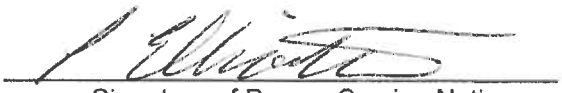
_____ Personally hand-delivering a copy to each of the consumers. Attach a copy of Notice.

_____ Posted on a public bulletin board, that will be seen by each of the consumers (for small, non-community water systems with prior Division approval). Attach copy of Notice.

X
_____ Other: Per agreement with the SWRCB Division of Drinking Water, notification letter was sent to the Executive Officer (XO) of each unit that utilized the area during the week of the positive sample. The XO will ensure the notice is shared with all of the Marines under his command. Additionally, mas email notification was utilized.

I hereby declare the forgoing to be true and correct under penalty of perjury.

Dated: January 17, 2017



Signature of Person Serving Notice

****Notice:** Complete this Proof of Notification and return it **along with a copy of the notification** to the Division within **10 days** of receipt of giving public notice.

Disclosure: Be advised that the California Health and Safety Code states that any person who knowingly makes a false statement on any report or document submitted for the purpose of compliance with the attached order may be liable for a civil penalty not to exceed five thousand dollars ($5,000) for each separate violation for each day that violation continues. In addition, the violators may be prosecuted in criminal court and upon conviction, be punished by fine of not more than twenty-five thousand dollars ($25,000) for each day of violation, or be imprisoned in county jail not to exceed one year or by both the fine and imprisonment.

APPENDIX 4. LEVEL 1 ASSESSMENT INVESTIGATION FORM

REVISED TOTAL COLIFORM RULE (RTCR) – LEVEL 1 ASSESSMENT

Groundwater System with Chlorination and Storage

This form is intended to assist public water systems in completing the investigation required by the federal revised Total Coliform Rule (rTCR) [effective April 1, 2016] and may be modified to take into account conditions unique to the water system. **To avoid a violation, an assessment report must be completed and returned to your local regulatory agency no later than 30 days after the trigger date.**

ADMINISTRATIVE INFORMATION

Entity Name: **USMC Twentynine Palms** PWSID NUMBER: **3610703** System Type: Community	Name	System Address & Email **MCAGCC Box 788110** **Twentynine Palms, CA 92278** **chris.elliott@usmc.mil**	Telephone Number **760-830-7883**
Operator in Responsible Charge (ORC)	**Nathaniel Mather**		
Person that collected TC samples	**Steven Cortez**		
System Owner	**United States Marine Corps**		
Certified Laboratory for Microbiological Analyses	**Babcock Laboratories**		
Date Investigation Completed: **January 4, 2016**			
Month(s) of Coliform Treatment Technique Trigger: **December**			

INVESTIGATION DETAILS

SOURCE	WELL (name) Well #3	WELL (name) Well #6	WELL (name) Well #12	WELL (name)	COMMENTS (attach additional pages if needed)
1. Inspect each well head for physical defects and report					
a. Is raw water sample tap upstream from point of disinfection?	Yes	Yes	Yes		
b. Is wellhead vent pipe screened?	Yes	Yes	Yes		
c. Is wellhead seal watertight?	Yes	Yes	Yes		
d. Is well head located in pit or is any piping from the wellhead submerged?	No	No	No		
e. Does the ground surface slope towards well head?	No	No	No		
f. Is there evidence of standing water near the wellhead?	No	No	No		
g. Are there any connections to the raw water piping that could be cross connections? (describe all connections in comments)	No	No	No		
h. Is the wellhead secured to prevent unauthorized access?	Yes	Yes	Yes		
i. To what treatment plant (name) does this well pump?	NA	NA	NA		
j. How often do you take a raw water total coliform (TC) test?	Quarterly	Quarterly	Quarterly		
k. Provide the date and result of the last TC test at this location					All 3 wells were sampled on 12-8-16 and all 3 wells results were absent for TC and FC.

REVISED TOTAL COLIFORM RULE (RTCR) – LEVEL 1 ASSESSMENT FORM
Groundwater System with Chlorination and Storage

TREATMENT	PLANT (NAME)	PLANT (NAME)	PLANT (NAME)	PLANT (NAME)	COMMENTS (attach additional pages if needed)
	NA				
1. If you provide continuous chlorination, was there any equipment failure?	**No**				**No equipment failure.**
a. Did this result in a loss of chlorine residual at the entry point to distribution system? If Yes, how long?	**No**				
b. Was emergency chlorination initiated? If Yes, how long?	**No**				
c. Did the distribution system lose chlorine residual?	**No**				
2. If you **do not** provide routine chlorination, was emergency chlorination initiated? If Yes, when?	**NA**				
3. Inspect each point where disinfectant is added and report					
a. Is the disinfectant feed pump feeding disinfectant?	**Yes**				
b. What is the feed rate of disinfectant in ml/minute?	**200 gal per day**				
c. What is the concentration of the disinfectant solution being fed? (percent or mg/l of chlorine as HOCl)	**65% Cal Hypo**				
d. By what method was the concentration of solution determined? (ex: measured, manufacturer's literature)	**Manufactures literature.**				
e. What is the age (days) of the disinfectant solution currently being used at this treatment location?	**Manufactured on site as needed. Solution is only days old.**				
f. What is the raw water flow rate at the point where disinfectant is added in gallons per minute?	**Approx. 1800 gpm**				**Changes based on demand and number of wells operating.**
g. What is the **total** chlorine residual measured immediately downstream from the point of application?	**.78 ppm**				
h. What is the **free** chlorine residual measured immediately downstream from the point of application?	**.73 ppm**				
i. What is the contact time in minutes from the point of disinfectant application to the first customer?	**1 to 1.5 Days**				**Unable to accurately determine due to system configuration. Demand based flow rates**

REVISED TOTAL COLIFORM RULE (RTCR) – LEVEL 1 ASSESSMENT FORM
Groundwater System with Chlorination and Storage

SAMPLE SITE EVALUATION (Complete for all TC+ or EC+ findings)	Routine Site TC+ or EC+	Upstream Site	Downstream Site	4th Repeat Sample (specify)
	Site # 3	Bldg. 2554	Bldg. 2567	
1. What is the height of the sample tap above grade? (inches)	24-36 inches	24-36 inches	24-36 inches	
2. Is the sample tap located in an **exterior** location or is it protected by an **enclosure**?	Enclosed	Exterior, Hose bib	Exterior, Hose bib	
3. Is the sample tap threaded, have a swing arm (kitchen sink) or an aerator (sinks)?	No	Threaded	Threaded	
4. Is the sample tap in good condition, free of leaks around the stem or packing?	Yes	Yes	Yes	
5. Can the sample tap be adjusted to the point where a good laminar flow can be achieved without excessive splash?	Yes	Yes	Yes	
6. Is the sample tap and areas around the sample tap clean and dry (free of animal droppings other contaminants or spray irrigation systems)?	Yes	Yes	Yes	
7 Is the area around the sample tap free of excessive vegetation or other impediments to sample collection?	Yes	Yes	Yes	
8. Describe how the tap was treated in preparation for sample collection (ran water, swabbed with disinfectant, flamed, etc.).	Flushed 2-5 min	Flushed 2-5 min	Flushed 2-5 min	
9. Is this sample tap designated on the bacteriological sample siting plan (BSSP) as a routine or repeat site?	Yes, Routine	Yes, Repeat	Yes, Repeat	
10. Were the samples delivered to the laboratory in a cooler and within the allowable holding time?	Yes	Yes	Yes	
11. What were the weather conditions at the time of the positive sample (rainy, windy, and sunny)?	Windy with blowing sand			

STORAGE	TANK (name)	TANK (name)	TANK (name)	TANK (name)	COMMENTS
	Reservoir #3				
1. Is each tank locked to prevent unauthorized access?	Yes				
2. Are all vents of each tank screened down-turned to prevent dust and dirt from entering the tank?	Yes				
3. Is the overflow on each tank screened?	Yes				
4. Are there any unsealed openings in the tank such as access doors, water level indicators hatches, etc.?	No				
5. Is the roof/cover of the tank sealed and free of any leaks?	Yes				
6. Is the tank above ground or buried?	Above ground				
a. If buried or partially buried, are there provisions to direct surface water away from the site.	NA				
b. Has the interior of the tank been inspected to identify any sanitary defects, such as root intrusion?	Yes				All tanks were inspected/dived May 2016

REVISED TOTAL COLIFORM RULE (RTCR) – LEVEL 1 ASSESSMENT FORM
Groundwater System with Chlorination and Storage

STORAGE	TANK (name)	TANK (name)	TANK (name)	TANK (name)	COMMENTS
	Reservoir #3				
7. Does the tank "float" on the distribution system or are there separate inlet and outlet lines?	**Separate inlet and outlet**				**ONLY TANK #3 FEEDS THIS SECTION OF SYSTEM**
8. What is the **measured** chlorine residual (total/free) of the water exiting the storage tank **today**?	**.82 ppm (free)**				
9. What is the volume of the storage tank in gallons?	**4.5 MG**				
10. Is the tank baffled?	**No**				
11 Prior to the TC+ or EC+, what was the previous date item #1-6 were checked and documented?	**Daily**				

PRESSURE TANK	TANK (name)	TANK (name)	TANK (name)	TANK (name)	COMMENTS
1. What is the volume of the pressure tank?	**NA**				
2. What is the age of the pressure tank?	**NA**				
3. Is the pressure tank bladder type or air compressor type?	**Na**				
4. Did the pressure tank(s) deviate from normal operating pressure?	**NA**				
5. Is the compressor pump running more often than normal?	**NA**				
6. Is the tank bladder(s) is water logged?	**NA**				
7. Is the tank(s) damaged, rusty, leaking, or has holes?	**NA**				
8. Was there any recent work performed?	**NA**				
9. Is the air relief vent (if there is one) on the pressure tank screened and facing downwards?	**NA**				
10. Can the inside of the pressure tank be visually inspected thru an inspection port? If so, when was the last time it was inspected?	**NA**				

DISTRIBUTION SYSTEM	SYSTEM RESPONSES
1. What is the minimum pressure you are maintaining in the distribution system?	**40 psi**
2. Did pressure in the distribution system drop to less than 5 psi prior to positive bacti?	**No**
3. Has the distribution system been worked on within the last week? (taps, hydrant flushing, main breaks, mainline extensions, etc.) If yes, provide details.	**No**
4. Are there any signs of excavations near your distribution system not under the direct control of your maintenance staff?	**No**
5. Did you inspect your distribution system to check for mainline leaks? Do you or did you have a mainline leak?	**No/No**

REVISED TOTAL COLIFORM RULE (RTCR) – LEVEL 1 ASSESSMENT FORM
Groundwater System with Chlorination and Storage

DISTRIBUTION SYSTEM	SYSTEM RESPONSES
6. If there was a mainline leak, when was it repaired?	**NA**
7. On what date was the distribution system last flushed?	**The area affected by the positive TC sample was flushed on 12-7-16.**
8. Is there a written flushing procedure you can provide for our review?	**Under development (see corrective actions)**
9. Do you have an active cross-connection control program?	**Yes**
10. What is name & phone number of your Cross-Connection Control Program Coordinator?	**Tim Coghill – 760-830-5495**
11. Have all backflow prevention devices in the distribution system been tested annually and repaired/replaced if they did not pass and retested afterwards?	**Yes**
12. When was the last physical survey of the system done to identify cross-connections?	**A base wide cross connection survey was conducted and completed in 2014. Reoccurring cross connection surveys are conducted every 5 years and or when a new facility/building is constructed or building/facility changes use.**

BOOSTER STATION	Response
1. Do you have a booster pump? How many?	**Yes, Total of 6 stations. 3 Stations on the line with the positive TC**
2. Do you have a standby booster pump if the main pump fails?	**Yes**
3. Prior to bacteriological quality problems, did your booster pump fail?	**No**
4. Do you notice standing water, leakage at the booster station?	**No**

GENERAL OPERATIONS:	Response
1. Has the sampler(s) who collected the samples received training on proper sampling techniques? If yes, please indicate date of last training.	**Yes, 05/09/16**
2. Does the water system have a written sampling procedure and was it followed?	**Yes, Contract lab has written procedures.**
3. Where there any power outages that affected water system facilities during the 30 days prior to the TC+ or EC + findings?	**No**
4. Were there any main breaks, water outages, or low pressure reported in the service area from which TC+ or EC+ samples were collected?	**No**
5. Does the system have backup power or elevated storage?	**Yes**
6. During or soon after bacteriological quality problems, did you receive any complaints of any customers' illness suspected of being waterborne? How many?	**No**
7. What were the symptoms of illness if you received complaints about customers being sick?	**NA**

REVISED TOTAL COLIFORM RULE (RTCR) – LEVEL 1 ASSESSMENT FORM
Groundwater System with Chlorination and Storage

SUMMARY: Based on the results of your assessment and any other available information, what deficiencies do you believe to have caused the positive total coliform sample(s) within your distribution system? *(DO NOT LEAVE BLANK)*

Deficiency #	Deficiency Description
1.	Positive total coliform sample was a result of low chlorine residual on an isolated dead end line servicing restrooms (sinks and toilets) located on military training ranges. The low chlorine is a result of inadequate line flushing.

CORRECTIVE ACTIONS: What actions have you taken to correct the above mentioned deficiencies? If additional time is needed to correct a deficiency, indicate the date that it will be corrected. *(DO NOT LEAVE BLANK)*

Deficiency #	Corrective Action	Completion/Proposed Date
1.	Public Works Division is purchasing and installing an automated sampling and flushing station that will be placed on this line.	December 31, 2017
2.	Public Works is formalizing (in writing) their flushing operation plan which will be submitted to Natural Resources Environmental Affairs for compliance oversight.	February 1, 2017

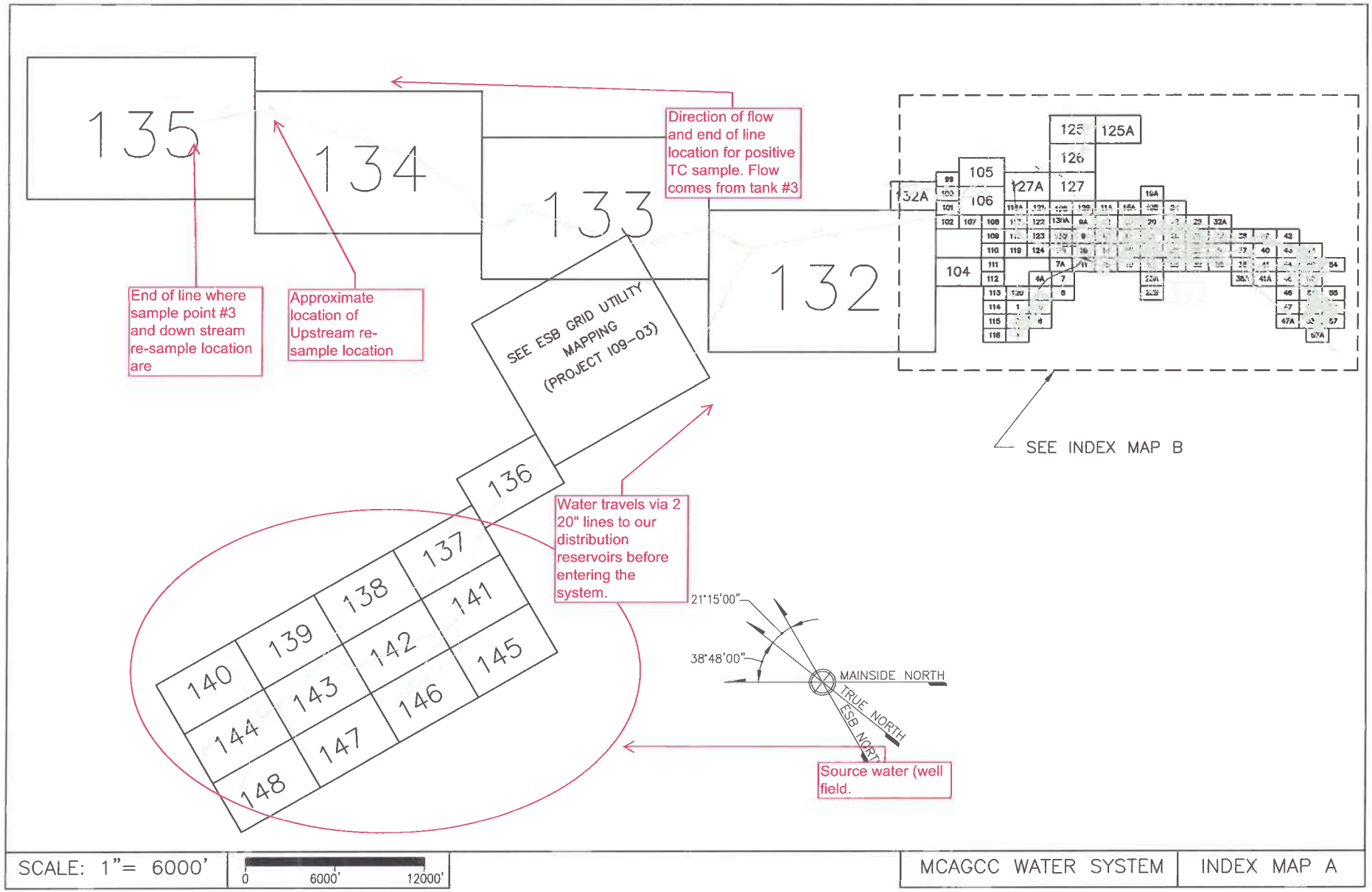
ADDITIONAL INFORMATION: The positive TC result was on an isolated dead end line that only provided service to restrooms (sinks and toilets) located on military training ranges. Because this line served only the range area and no residents were impacted, we are requesting to modify our public notification. We propose to provide notification to the Executive Officer (XO) of each unit that was on the range during the week of the positive TC result. The unit XO will be required to disseminate the information to all personnel under their command. Additionally, we will place the information in our base newspaper and send out a base wide email notification.

CERTIFICATION: I certify under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

NAME: Chris Elliott **TITLE:** Water Resources Manager **DATE:** January 5, 2017

Upon review of the Level 1 Assessment Form, the local regulatory agency may require submittal of the following additional information:

- Sketch of system showing all sources, all treatment and chlorination locations, storage tanks, microbiological sampling sites and general layout of the distribution system including the location of all hazardous connections such as the wastewater treatment facility.
- A set of photographs of the source, pressure tanks, and storage tanks in the system may be submitted if they would show that the contamination is directly related and changes have been made since the last inspection by the local regulatory agency.
- Name, certification level and certificate number of the Operator in Responsible Charge.
- Copy of the last cross connection survey performed that identifies the location of all unprotected cross connections.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Direction of flow and end of line location for positive TC sample. Flow comes from tank #3
End of line where sample point #3 and down stream re-sample location are
Approximate location of Upstream re-sample location
SEE ESB GRID UTILITY MAPPING (PROJECT 109-03)
SEE INDEX MAP B
Water travels via 2 20" lines to our distribution reservoirs before entering the system.
21°15'00"
38°48'00"
MAINSIDE NORTH
TRUE NORTH
ESB NORTH
Source water (well field.
SCALE: 1"= 6000'
0
6000'
12000'
MCAGCC WATER SYSTEM
INDEX MAP A